# Setting up WinDAS to service and calibrate Sony CRT Monitor

2025-05-29, 09:57

jameswhite1979
Newbie

3

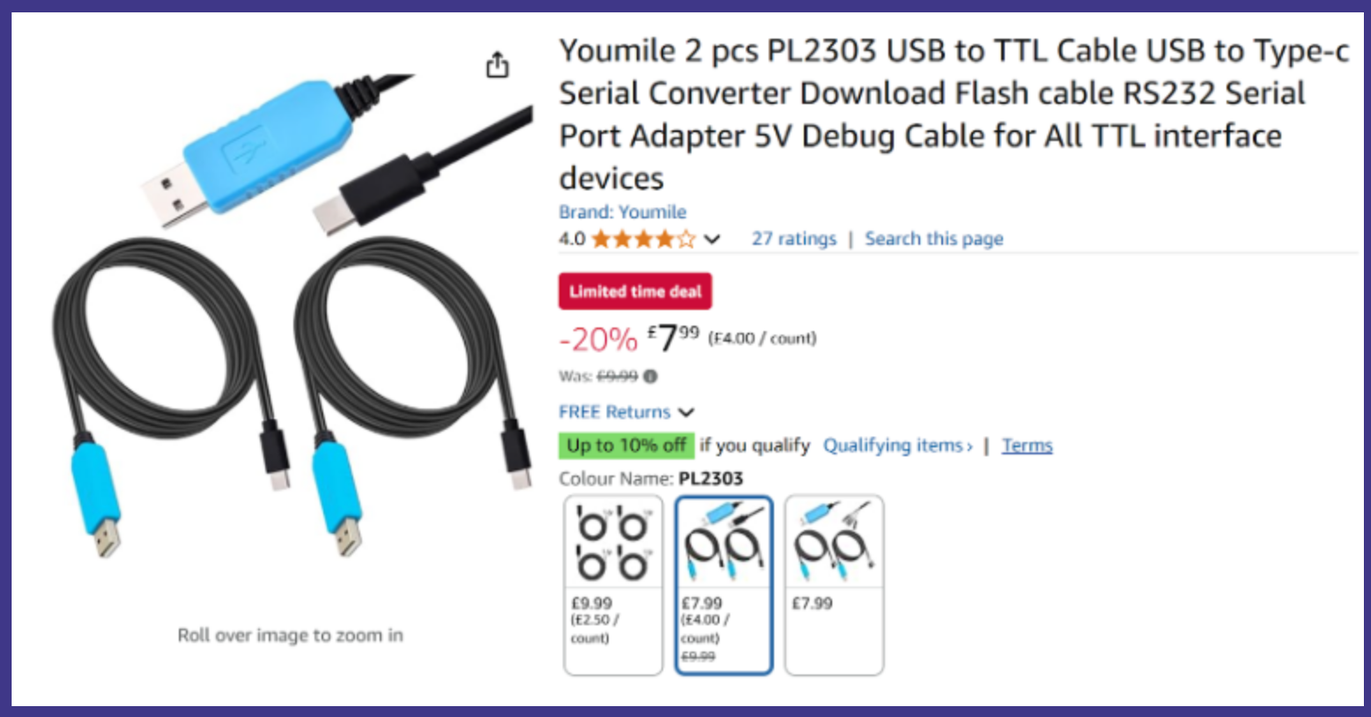
2024-09-27, 11:28

I take no responsibility for any damage done to your computer, your monitor, or yourself while following these instructions.

Credits to:
https://hardforum.com/threads/windas-white-po ... n-crts.1830788/
https://www.youtube.com/watch?v=4QblnBmDOWs
https://www.youtube.com/watch?v=Lt1NtRH4BOg
https://www.youtube.com/watch?v=xH4fKpKLkBM

## USB to TTL adaptor

I purchased the following USB to TTL adaptor from Amazon but I think most 2303 versions should work.




The pin out is:

Red - VCC 5V
Black - GND ground
White - RXD
Green - TXD

NB - these things are delicate and cheap, be gentle generally and more so pulling the pins off the monitor connection

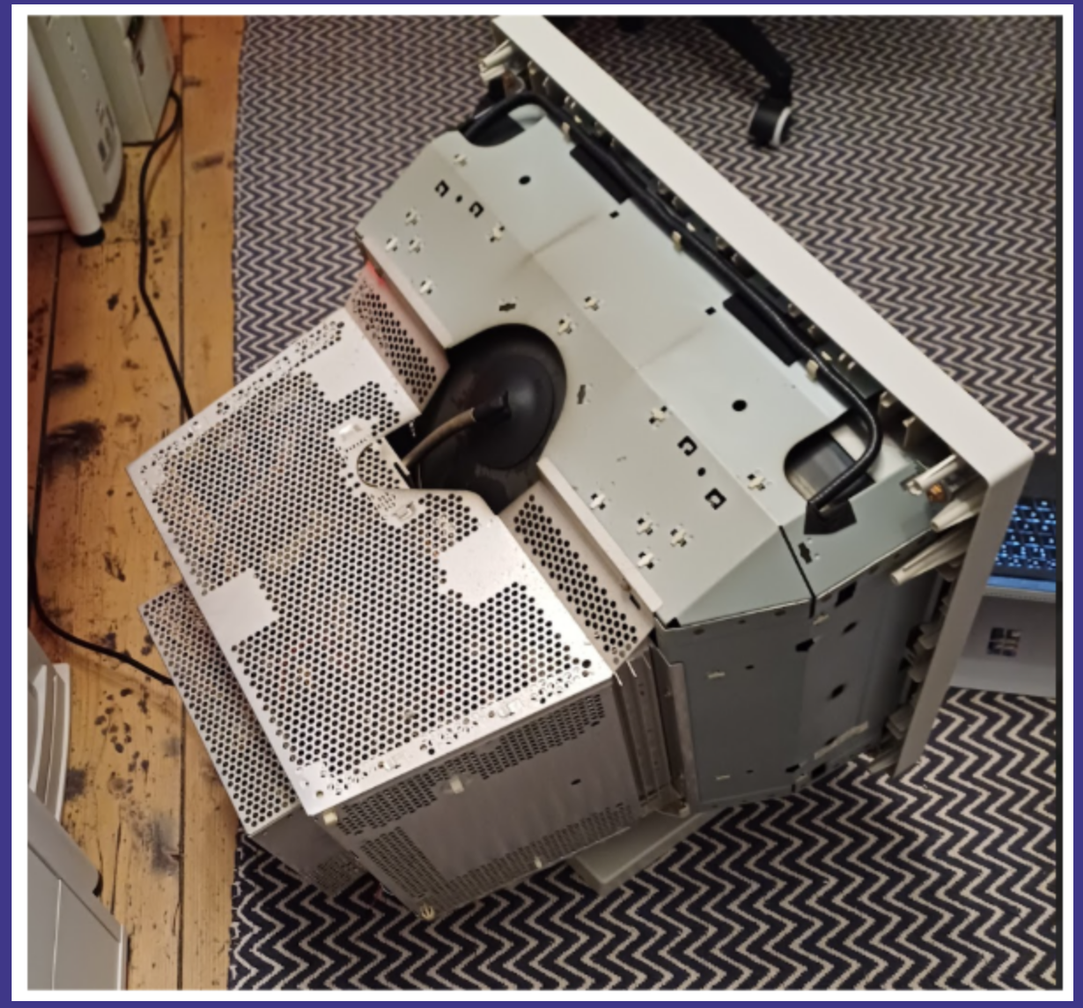
## Windows OS

If you want to install on Windows XP you will need to install this driver

I installed Windows 10 64bit Pro and the driver was automatically installed. I have read some reports that some USB to TTL have a clone Prolific chip inside that when detected with the Prolific more recent driver and prevent it from working and this is highlighted in device manager with working to the device name to the effect of 'blocked'.

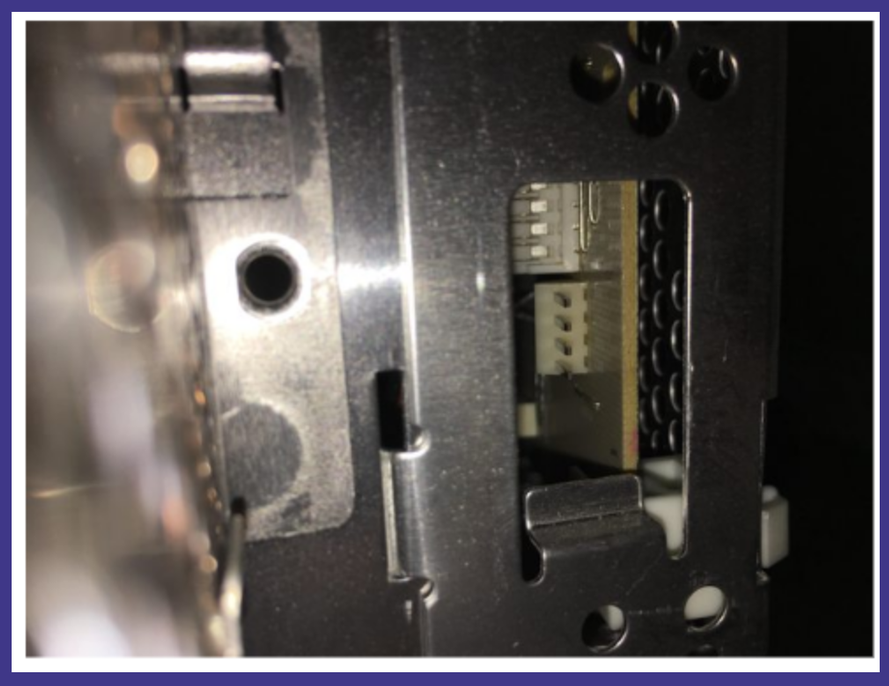
## Opening up the Sony Monitor (GDM-F500R) and connecting the USB to TTL Pins

There were only 4 screws in each corner then it just slid back and off. There is a lot of metal shielding that does not need to be removed. Do not go touching the area on top with the thick cable and rubber grommet - very dangerous voltage, in fact there is not need to go touching anything under the shields.



You are looking for a small set of 4 pins on the main PCB that is likey to be near the edge. Might was upright and hard to see. I was just about able to read the PCB through the small holes of the shield (rather that remove) to identify what the pins were, on my model it was:

1st pin (top) = gnd
2nd pin = +5v
3rd pin = rxd
4th pin (bottom) = txd



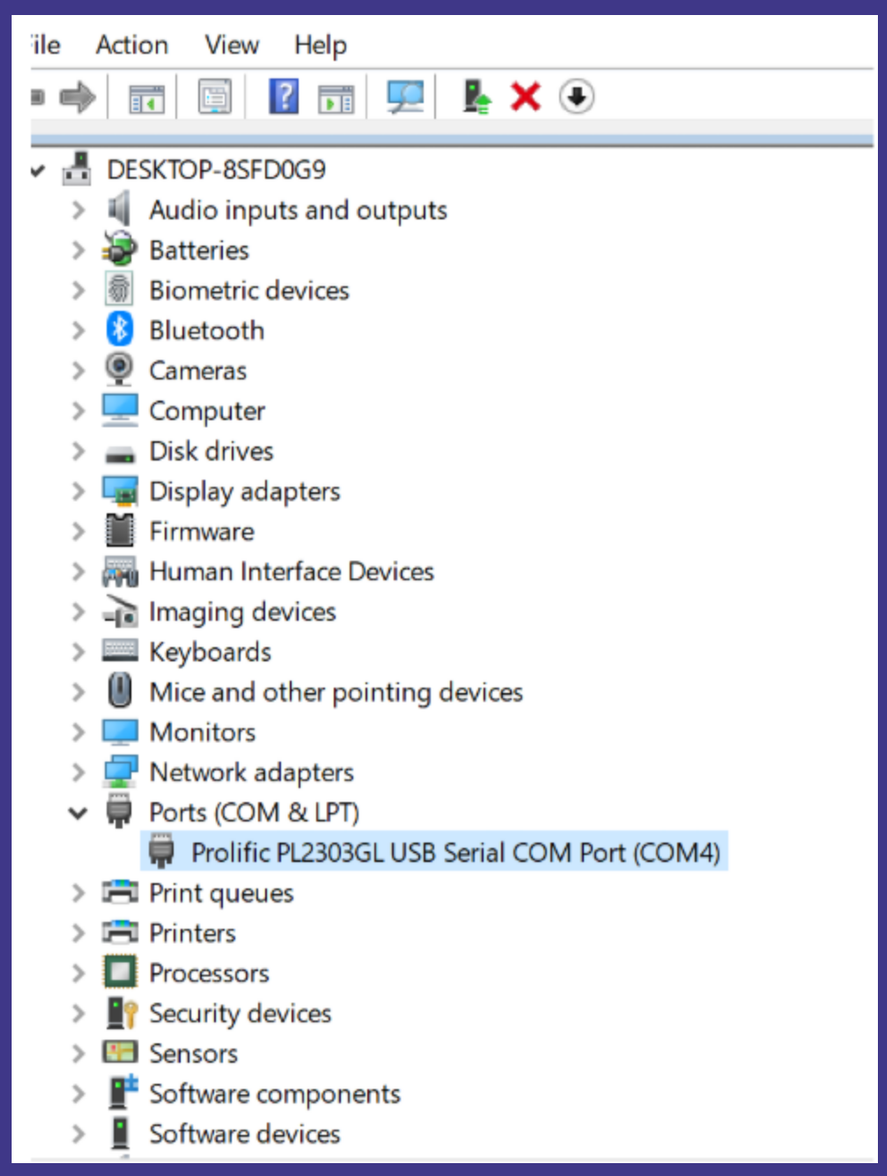
I connected the pins from the USB to TTL as follows (NB you need to connect RXD <> TXD & TXD <> RXD (so that is Read to Transmit, NOT read to read & transmit to transmit)):

1st pin (top) gnd <> Black
2nd pin +5v no need to connect red as powered provide from PC and monitor
3rd pin rxd <> Green
4th pin (bottom) txd <> White

## Installing and setting up WinDAS

Download from https://archive.org/download/sony-das-original/DASX.zip
You only need the Windows version so just extracted WinDAS to c:\windas
For Windows XP run c:\windas\active\activex.bat
For Windows 10 I copied msflxgrd.ocx to c:\windows\system & c:\windows\system32
For each area: c:\windows\system, c:\windows\system32 and c:\windas\active I ran as admin 'regsvr32 .\msflxgrd.ocx'. (I was getting various errors so I just covered all bases and it worked, so not sure which was path correct)

Open Windows Device manager and find the USB to TTL adaptor and at the end in () it will tell what com port it is on, mine was com4

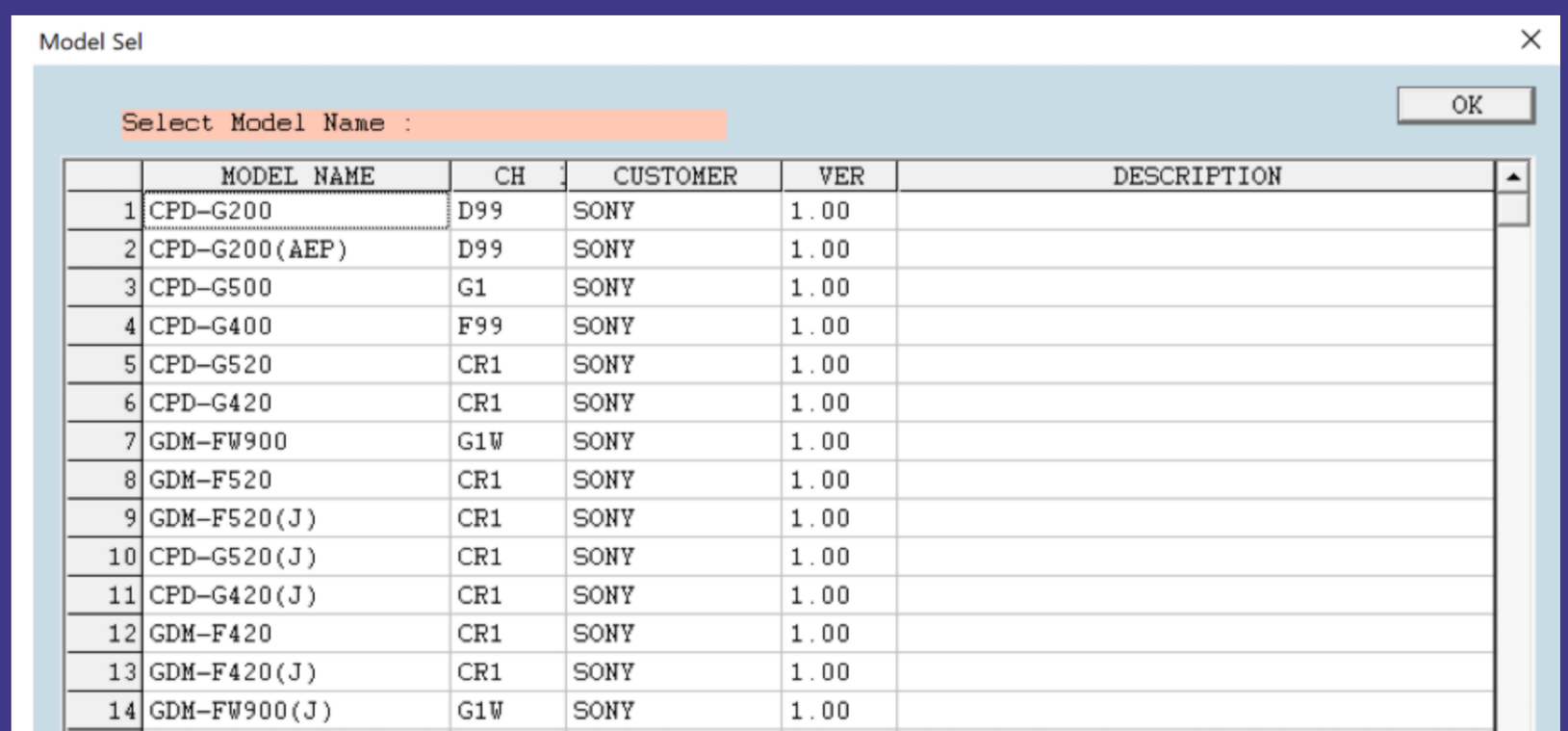



Open c:\Windas\windas.exe you are likely to get around 3 error messages but these relate to not having a colour calibration tool connected not the connection to the monitor so they can be ignored

From within WinDAS from the 'Set up' dropdown menu select 'configuration' and in the first box select the com port that your USB to TTL was listed in Device Manager, mine was Com4 and in the 2nd box scroll all the way down to manual and click OK.

Power on your monitor and provide it with a continual video signal to prevent iit from going into sleep mode else the connection will drop

From within WinDAS from the 'Set up' dropdown menu select 'Model Sel' scroll through and select your monitor, if the below model list pop up does not appear this is because you have not registered the msflxgrd.ocx correctly.


Model Sel

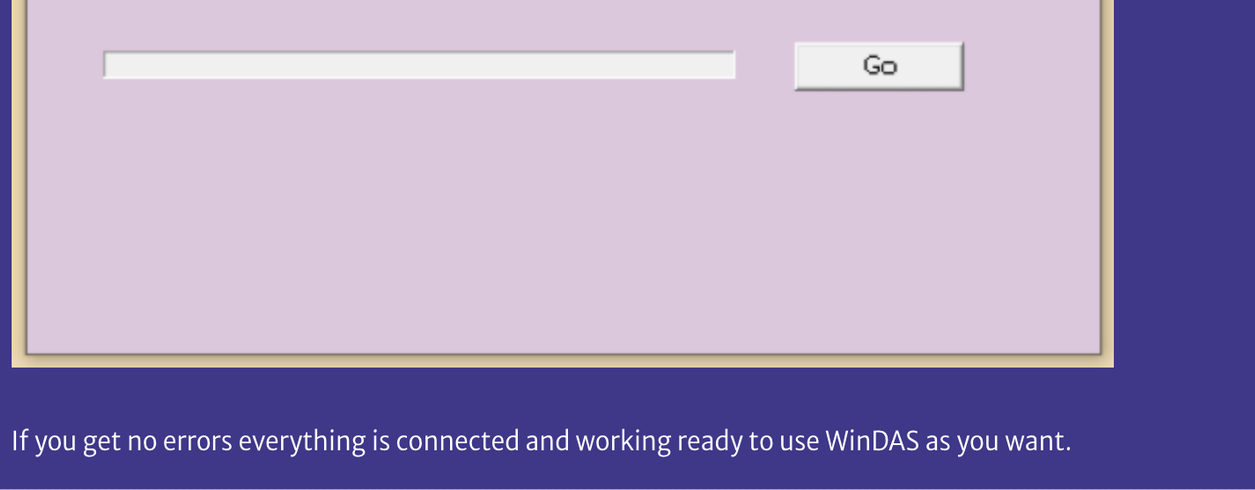
Select Model Name :

OK

| | MODEL NAME | CH | CUSTOMER | VER | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | CPD-G200 | D99 | SONY | 1.00 | |
| 2 | CPD-G200(AEP) | D99 | SONY | 1.00 | |
| 3 | CPD-G500 | G1 | SONY | 1.00 | |
| 4 | CPD-G400 | F99 | SONY | 1.00 | |
| 5 | CPD-G520 | CR1 | SONY | 1.00 | |
| 6 | CPD-G420 | CR1 | SONY | 1.00 | |
| 7 | GDM-FW900 | G1W | SONY | 1.00 | |
| 8 | GDM-F520 | CR1 | SONY | 1.00 | |
| 9 | GDM-F520(J) | CR1 | SONY | 1.00 | |
| 10 | CPD-G520(J) | CR1 | SONY | 1.00 | |
| 11 | CPD-G420(J) | CR1 | SONY | 1.00 | |
| 12 | GDM-F420 | CR1 | SONY | 1.00 | |
| 13 | GDM-F420(J) | CR1 | SONY | 1.00 | |
| 14 | GDM-FW900(J) | G1W | SONY | 1.00 | |

| | | | | |
|---|---|---|---|---|
| 15 | GDM-FW9011 | G1W | SGI | 1.00 |
| 16 | P1100 | G1 | COMPAQ | 1.00 |
| 17 | P1110 | G1 | DELL | 1.00 |
| 18 | P1110(PCD) | G1 | DELL | 1.00 |
| 19 | FMV-DP997 | G1 | FUJITSU | 1.00 |

Then click ok and it will be listed




Now you want to backup the current configuration by selecting from the File drop down 'Save data to file' select a location and filename and click Go there is a slow progress bar and the monitor will turn on and off once or twice. I also suggest making a copy of this file so you have a backup of the backup just in case, also check the file size is more than omb.




If you get no errors everything is connected and working ready to use WinDAS as you want.

2025-05-29, 10:04

**jameswhite1979**
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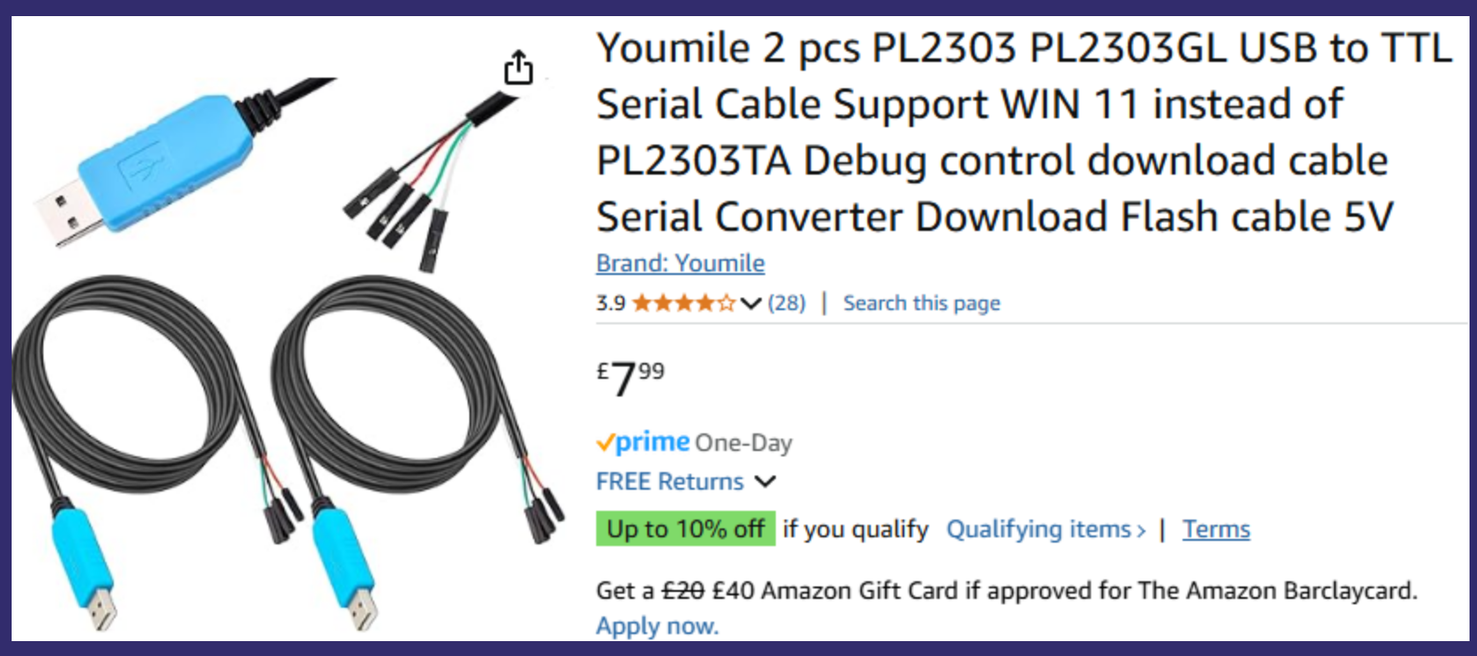
3
2024-09-27, 11:28

Sorry I used the wrong image for the Amazon TTL to USB it should be this one (not sure how to edit the post)

https://www.amazon.co.uk/dp/B0CZHVRX2W?ref=pp ... asin_title&th=1




2025-05-29, 19:51

**chrismes**
Newbie

70
2020-05-14, 08:13
Germany

Good post, I wish you would have posted this a few weeks ago. 😉

I had to do this the other day on my E430 and the result is great. My Sony had a purple tint and WinDAS was the only option to fix it. I bought a similar USB/TTL cable from Waveshare and got a used DTP-94 colorimeter for the calibration. I initially followed the post on the [H]ardForum for setting up the software, but I did not follow all the steps explained there, because the goal of that post is to end up with very deep blacks in Windows using a custom LUT file. Since I wanted to calibrate for DOS use, I mainly followed the first YouTube video in OPs post.

Once you get some experience with WinDAS and it's quirks the whole process is pretty straight forward.

Back to Video

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